

## INTERNATIONAL SEARCH REPORT

PCT/3/01311

A. CLASSIFICATION OF SUBJECT MATTER  
 IPC 7 H04L25/49 H01L23/522

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 H04L H01L G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>MACCHIARULO L ET AL: "Wire placement for crosstalk energy minimization in address buses"</p> <p>PROCEEDINGS 2002 DESIGN, AUTOMATION AND TEST IN EUROPE CONFERENCE AND EXHIBITION, PROCEEDINGS 2002 DESIGN, AUTOMATION AND TEST IN EUROPE CONFERENCE AND EXHIBITION, PARIS, FRANCE, 4-8 MARCH 2002, pages 158-162, XP002253854</p> <p>2002, Los Alamitos, CA, USA, IEEE Comput. Soc, USA</p> <p>ISBN: 0-7695-1471-5</p> <p>the whole document</p> <p style="text-align: center;">--- -/--</p>	1-9

☒ Further documents are listed in the continuation of box C.

☐ Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

9 September 2003

Date of mailing of the international search report

24/09/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
 NL - 2280 HV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax: (+31-70) 340-3016

Authorized officer

Toumpoulidis, T

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PCI/IB 03/01311

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KOMATSU S ET AL: "ADAPTIVE CODEBOOK ENCODING FOR LOW-POWER CHIP INTERFACE" ELECTRONICS & COMMUNICATIONS IN JAPAN, PART II - ELECTRONICS, SCRIPTA TECHNICA. NEW YORK, US, vol. 83, no. 1, PART 2, 2000, pages 17-23, XP000928695 ISSN: 8756-663X the whole document	1-9
A	PATENT ABSTRACTS OF JAPAN vol. 1996, no. 01, 31 January 1996 (1996-01-31) & JP 07 249687 A (MITSUBISHI ELECTRIC CORP), 26 September 1995 (1995-09-26) cited in the application abstract	1-9

## INTERNATIONAL SEARCH REPORT

PCT/IB 03/01311

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 07249687	A	26-09-1995	NONE